

Notice: Information requested on this form is required for water system projects under s. 281.61, Wis. Stats. Failure to provide complete information to the Department will result in the project not being eligible to receive funding through the safe drinking water loan program. Personal information collected will be used for program administration and enforcement and may be provided to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Project Information

Water System Name _____

Project Name _____

Type of Water Storage Tank (Select all that apply)

- ☐ Single pedestal spheroid ☐ Fluted pedestal ☐ Other: _____
- ☐ Multi-legged ellipsoid ☐ Standpipe

Storage Structure Location Information

Street Address _____

Pressure Zone _____

Yes No

- ☐ ☐ Is the structure located in a floodway? [s. NR 811.57(1)]
- ☐ ☐ Is the structure located in a floodplain outside of the floodway?
- ☐ ☐ Is the structure located in an area that is accessible by road during the entire year? [s. NR 811.57(3)]
- ☐ ☐ Is the structure located on property owned by the water supply owner?
- ☐ ☐ Is the road to the structure located on property owned by the water supply owner?
- ☐ ☐ If either the structure or access road is not located on property owned by the water supply owner, have easements been obtained to provide access to, or use of, the property? [s. NR 811.57(3)]

Volume Sizing Information [s. NR 811.56]

Will the storage structure, in conjunction with the distribution system design, provide flows as specified in s. NR 811.63(3)? ☐ Yes ☐ No

Design Period _____

Storage Volume [s. NR 811.56(1)] _____ gallons (**Attach sizing calculations**)

Are other elevated tanks located in the pressure zone in which this structure is to be located? ☐ Yes ☐ No

If yes, what is the name, overflow elevation, and storage volume for each of these other tanks? _____

Pressure Information [s. NR 811.56]

Top of Foundation Elevation at Storage Tank/Standpipe _____ USGS

Overflow Elevation _____ USGS

Highest Elevation in the Pressure Zone _____ USGS

Lowest Elevation in the Pressure Zone _____ USGS

Highest Expected Normal Operational Water Level in the Storage Tank/Standpipe _____ USGS

Lowest Expected Normal Operational Water Level in the Storage Tank/Standpipe _____ USGS

Maximum Operating Pressure in Pressure Zone [s. NR 811.56(2)] _____ psi

Minimum Operating Pressure in Pressure Zone [s. NR 811.56(2)] _____ psi

Is the structure designed to meet the minimum and maximum pressure requirements specified in s. NR 811.60(1)? ☐ Yes ☐ No

Elevated Storage Tank/Standpipe Submittal Checklist

Form 3300-262 (R 3/05)

Page 2 of 4

Construction Details

Materials [s. NR 811.58(1)]

Select as applicable:

- ☐ Steel: AWWA Standard
- ☐ welded panel _____
- ☐ bolted & gasketed _____
- ☐ Concrete _____
- ☐ Other DNR-approved material: _____

Drains [s. NR 811.58(3)]

Draining Method _____

Is any piping that is used to drain water from this storage tank directly connected to a sanitary sewer? ☐ Yes ☐ No

Is drain piping brought down to within 12 inches of the ground surface? ☐ Yes ☐ No

Discharge Method:

- ☐ A. with a free air break over a drainage inlet structure, splash pad, or riprap
- ☐ B. with a free air break over a storm sewer manhole
- ☐ C. through a valved connection to overflow piping
- ☐ D. through an onsite fire hydrant

Describe how any negative environmental impacts from the discharge of drainage water shall be prevented: _____

Overflow [s. NR 811.58(4)]

Is any overflow piping from this storage tank directly connected to a sanitary sewer? ☐ Yes ☐ No

Is overflow piping brought down to within 12 inches of the ground surface? ☐ Yes ☐ No

Discharge Method:

- ☐ A. with a free air break over a drainage inlet structure, splash pad, or riprap
- ☐ B. with a free air break over a storm sewer manhole

Describe how any negative environmental impacts from the discharge of overflow water shall be prevented: _____

Overflow Pipe Diameter _____

Is the diameter of the overflow pipe sufficient to allow wasting water in excess of the maximum filling rate? ☐ Yes ☐ No

Is an inlet box provided? ☐ Yes ☐ No

Is the overflow provided with a 4 mesh noncorrodible screen? ☐ Yes ☐ No

Is the tank designed with an internal overflow pipe? ☐ Yes ☐ No

If yes, is the overflow pipe located in the access tube? ☐ Yes ☐ No

Overflow Pipe Material _____

Inlet - Outlet [s. NR 811.58(5)]

Does the tank have separate inlet and outlet pipes? ☐ Yes ☐ No

Inlet Pipe Diameter _____ inches

Outlet Pipe Diameter _____ inches ☐ N/A

Is the piping sized to accommodate design fill and removal rates including considerations for future improvements? ☐ Yes ☐ No

Elevated Storage Tank/Standpipe Submittal Checklist

Form 3300-262 (R 3/05)

Page 3 of 4

Access [s. NR 811.58(7)]

Are manholes and other hatches framed at least 4 inches above the surface of the roof at the opening? ☐ Yes ☐ No

Are manholes fitted with a solid watertight cover that overlaps the framed opening and extends down around the frame at least 2 inches? ☐ Yes ☐ No

Are manholes capable of being locked at all times other than when being used by authorized personnel? ☐ Yes ☐ No

Security Measures Provided: (select all that apply)

- ☐ Lockable access door ☐ Security fencing ☐ Police or security service patrol
☐ Intrusion alarm ☐ Lighting

Briefly describe any other security measure that will be provided for this structure: _____

Will communications equipment ever be installed on the structure? ☐ Yes ☐ No

Is access to communication equipment isolated from access to wetted portions of the tank? ☐ Yes ☐ No ☐ Not Applicable

Vent [s. NR 811.58(8)]

Is the storage tank vented to the atmosphere? ☐ Yes ☐ No

Is the vent sized to allow an airflow that is consistent with maximum water inflow and outflow rates? ☐ Yes ☐ No

Does the vent pipe terminate in a U-bend with the end of the pipe terminating at least 4 inches above the roof? ☐ Yes ☐ No

Does the vent pipe terminate in a mushroom cap that is constructed at least 4 inches above the roof? ☐ Yes ☐ No

Is a 4 to 24 mesh noncorrodible screen installed within the vent pipe or cap at a location that is least susceptible to vandalism? ☐ Yes ☐ No Mesh Size _____

When viewed from the side, are the screens completely covered by the vent cap? ☐ Yes ☐ No

Is the vent pipe or cap designed to prevent bird perches? ☐ Yes ☐ No

Is a detail drawing of the vent included in the plans? ☐ Yes ☐ No

Silt Stop [s. NR 811.58(9)]

Is the discharge pipe located in a manner that will prevent the flow of sediment into the distribution system? ☐ Yes ☐ No

Is a removable silt stop provided? ☐ Yes ☐ No

Safety [s. NR 811.58(12)]

In accordance with OSHA requirements, are ladders, ladder cages or safety climbing devices, balcony railings, landing platforms, guardrails and safe entry hatch locations provided where applicable? ☐ Yes ☐ No

Describe _____

Are railings, handholds, and landing platforms provided where personnel transfer from the access tube to the water compartment? ☐ Yes ☐ No

If the elevated tank has a riser pipe that exceeds 8 inches in diameter, is a protective bar(s) provided over the riser openings inside the tank? ☐ Yes ☐ No ☐ Not Applicable

Is the structure designed to comply with other applicable local, state, and federal codes pertaining to workplace safety (ch. Comm 32, OSHA, etc.)? ☐ Yes ☐ No

Is the structure considered a confined space that is subject to the confined space entry requirements of s. Comm 32.29, Wis. Admin. Code? ☐ Yes ☐ No

Elevated Storage Tank/Standpipe Submittal Checklist

Form 3300-262 (R 3/05)

Page 4 of 4

Freezing [s. NR 811.58(13)]

Is the structure designed to minimize freezing? ☐ Yes ☐ No

Are riser pipes, overflows, vents, and other appurtenances designed to minimize freezing that would interfere with proper operation? ☐ Yes ☐ No

Is the riser pipe insulated? ☐ Yes ☐ No

As an option, is a Department-approved recirculation pump or air bubbler system to be installed? ☐ Yes ☐ No

If yes, provide a description of the pump or system (include pump capacity, material, piping diameter, location, etc.): _____

Painting and Cathodic Protection [s. NR 811.58(15)]

Are metal surfaces to be protected by paints or other protective coatings? ☐ Yes ☐ No

Are wet interior paint systems and application procedures consistent with AWWA standard D102, dated January 28, 1978? ☐ Yes ☐ No

Paint Manufacturer _____

	<u>Mfg. Spec. No.</u>	<u>Color</u>	<u>NSF 61 Approved?</u>
Primer Coat	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Intermediate Coat	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Final Coat	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

Curing Time Required Before Tank May Be Filled _____

Is optional cathodic protection to be provided? ☐ Yes ☐ No

If yes, describe the method to be used: _____

Taps [s. NR 811.58(16)]

Will a smooth end metal sampling tap be installed in the connecting main or riser pipe? ☐ Yes ☐ No

Will a threaded tap for disinfection be installed in the connecting main or riser pipe? ☐ Yes ☐ No

Disinfection [s. NR 811.58(17)]

Do specifications include written procedures for disinfection that are equivalent to those outlined in the current AWWA standard C652, dated August 1, 2002? ☐ Yes ☐ No

AWWA Disinfection Method _____

Do specifications include written procedures for bacteriological sampling that complies with the requirements of s. NR 811.07(3), Wis. Admin. Code? ☐ Yes ☐ No

Location for Discharge of Chlorinated Water _____

Will water discharged to waste during disinfection comply with WPDES general permit requirements? ☐ Yes ☐ No

Will dechlorination be necessary before wasted water is discharged? ☐ Yes ☐ No

Note: No total residual chlorine may be measured in water being discharged to surface water.

Construction Inspection

On-site inspection to be provided by _____

Certification

I hereby certify that the above information and attachments are accurate and complete to the best of my knowledge.

Signature of Professional Engineer	Date Signed	Printed Name of Professional Engineer
Wisconsin P.E. Number	Telephone Number	Fax Number